

General Monitoring Guideline for Section 401 Water Quality Certification Projects

Period of Construction Project	<1 to 4 Months					\$5 Months to #4 Year					Construction Project Monitoring Frequency*		
	#1	>1	2	3	4	\$5	1	2	3	#4	Pre-	During	Post
Parameter to Monitor for "X" Months of "In-Water" Work													
Photo Documentation	U										U	U	U
pH	T	U	U	U	U	U	U	U	U	U	U	U	o
Turbidity	T	U	U	U	U	U	U	U	U	U	U	U	o
Total Suspended Solids (TSS)	T	U	U	U	U	U	U	U	U	U	U	U	o
Dissolved Oxygen (DO)	T	T	T	T	T	T	T	T	T	T	U	U	o
Salinity	T	T	T	T	T	T	T	T	T	T	U	U	o
Temperature	T	T	T	T	T	T	T	T	T	T	U	U	o
Secchi Disc or Light Extinction	-	-	-	-	-	-	-	-	-	-	-	-	-
Biological Monitoring	X	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Nitrate + Nitrite Nitrogen (NO ₃ -NO ₂)	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Total Kjeldahl Nitrogen (TKN)	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Ammonia Nitrogen (NH ₄)	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Total Nitrogen (TN)	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Ortho-Phosphate (PO ₄)	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Total Phosphorus (TP)	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Chlorophyll %	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Silicate	•	•	•	•	•	•	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Pesticides, PAHs, metals, etc.	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Other													
Monitoring Frequency	D	D	D	3W	3W	3W	2M	M	Q	Q	*	**	***

Symbol Legend	
U	Basic water quality monitoring parameters
T	Included with dredging projects, if no habitat loss or modification
o	Optional per data evaluation suggesting no significant impact
-	Optional per dredging projects
X	Photo documentation on dredging project with some habitat loss or modification
Y	Bio-monitoring on dredging projects with habitat loss or modification
Ž	To be determined on individual case
•	Optional per individual cases for dredging projects

Notes:

* Pre-construction sampling for TSS and Turbidity of TEN samples over TWO weeks for projects that impact bottom sediment.

** During construction monitoring is limited to length of "in-water" work period.

*** Post-construction monitoring is limited to once per construction period.

Shaded blocks represent basic or minimum requirement for most projects.

D = Daily

W = Weekly

M = Monthly

Q = Quarterly

(i.e., 3W = three times per week)